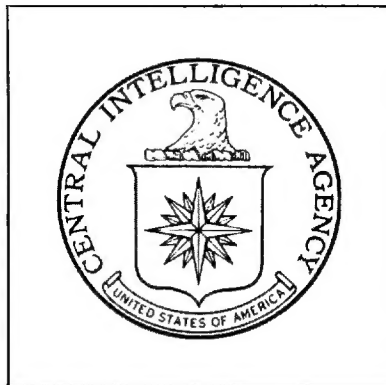


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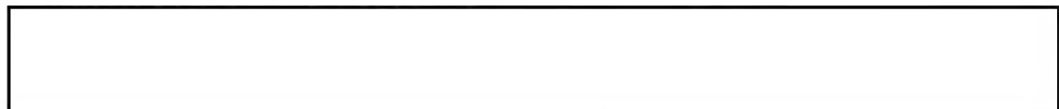
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by NIMA/DOD

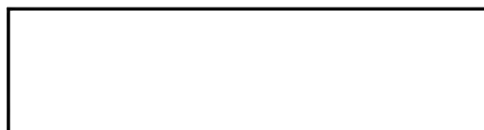
Imagery Analysis Report

Naval Base and Shipyard 402

Severodvinsk, USSR



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IMAGERY ANALYSIS SERVICE

January 1968

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25X1

NAVAL BASE AND SHIPYARD 402

SEVERODVINSK, USSR

25X1

- 1 -

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SEVERODVINSK NAVAL BASE & SURFACED W/2
64-35N 039-50E
SEVERODVINSK, USSR



25X1

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IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS ON FIGURE 2

1. Four Floating Vertical Screens
This is the first sighting of floating screens near the East Quay.
2. Unidentified Auxiliary
This is the same ship (believed to be a "J" Class submarine tender)
berthed in this position on [REDACTED] See Annotation 16,
[REDACTED]
3. Possible "J" Class SSG
A broad beam and a large sail are the only recognition features
visible. Cloud cover on the companion frame of photography pre-
cludes viewing this area of the yard in stereo. Linear imagery and
rectangular shadows indicate the presence of floating vertical screens
outboard of this unit. No screens have previously been sighted out-
board of "J" Class submarines at Severodvinsk.

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25X1

TOP SECRET

SEVERODVINSK NAVAL BASE & SHIPYARD 402

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SEVERODVINSK, USSR
(EAST QUAY)

25X1

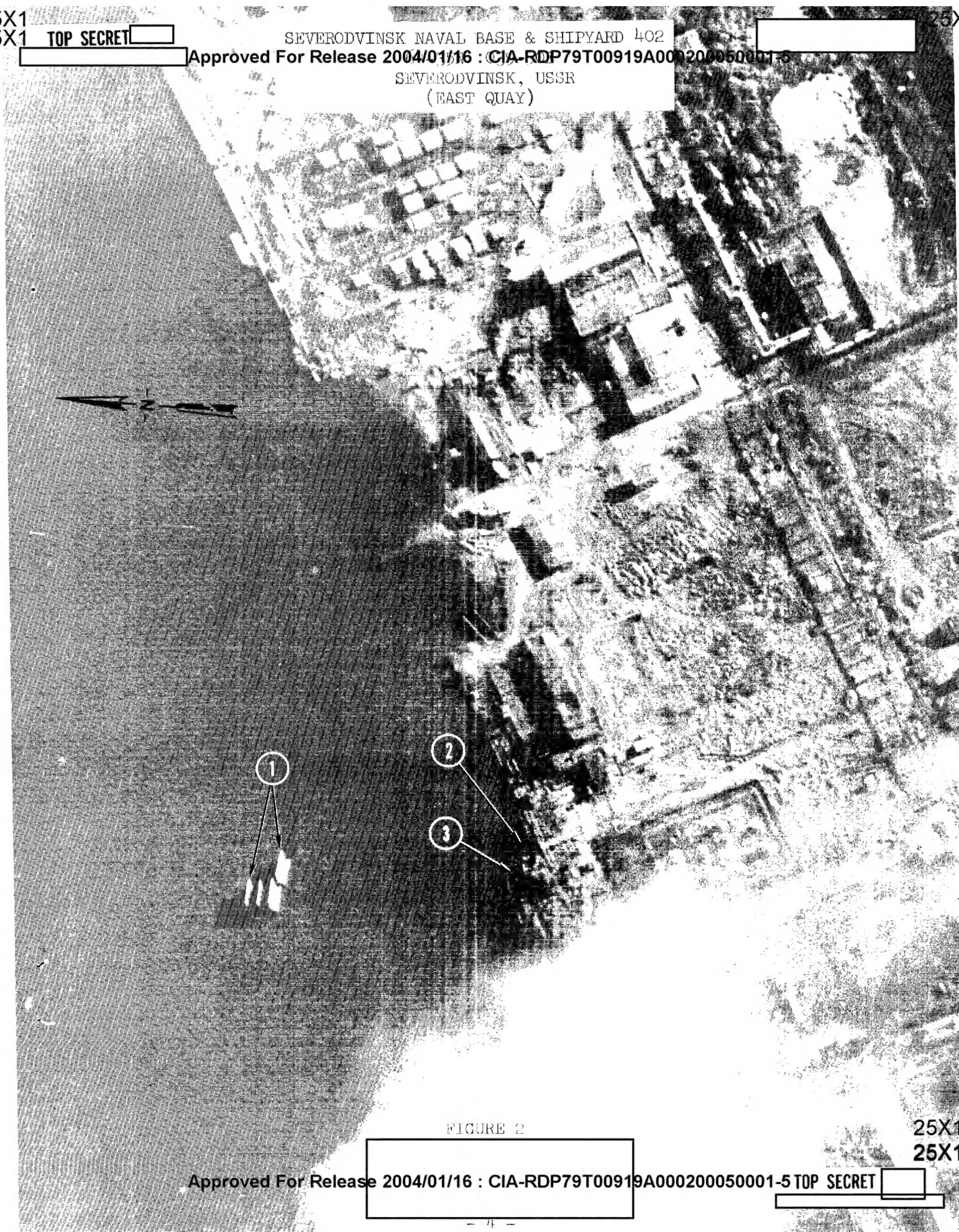


FIGURE 2

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IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 3

1. Submarine Hull Section on Track Behind Transverser
This section is cylindrical in shape and is resting on its longitudinal axis in line with the long axis of the main construction hall. Three white stripes or "bands" appear to curve around the outside of the cylinder at regular intervals. The length-overall and the diameter of this section each measure roughly 25 feet.* The spacing between the white stripes is about [REDACTED]
2. Submarine Hull Section on Track Behind Transverser
This section is cylindrical in shape and is also resting on its longitudinal axis parallel to the long axis of the main construction hall. Its diameter is roughly [REDACTED]
3. Possible Submarine Hull Section Behind the Main Construction Hall
No measurements were obtainable due to obliquity and shadow.

* All measurements have been made by the CIA/IAS project analyst.

NOTE: Obliquity, lack of stereo and poor image quality have precluded all but rough approximations of the dimensions cited above.

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IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

25X1

25X1

KEY TO ANNOTATIONS ON FIGURE 4

1. Possible Keel Blocks
Approximately 15-20 blocks are positioned on Track 4 (the northernmost track, southern bay). The distance between the block extremities is roughly 170 feet, with the first block positioned roughly 170 feet from the door of the main construction hall.
2. Probable Keel Blocks
Approximately 35-40 probable blocks appear to be aligned with Track 3 (the southernmost track leading into the northern bay) of the main construction hall. The blocks appear to be as wide as 25 feet and are evenly distributed over a distance of approximately 330 feet. The lead block is roughly 90 feet from the door to the main construction hall door. If this were indicative of a recent submarine launching, the best candidate would be the new 410-foot unit at Berthing Space 4 (Annotation 13, Figure 5 of this report). Previous analysis has indicated that Ways 1 and 2 have been associated with "N" Class SSN construction and Ways 4 and 5 with "E-II" Class SSGN construction. See Annotation 8, [REDACTED] and Annotations 6 and 11, [REDACTED] CIA/PIR-67315; and Annotation 33, [REDACTED] CIA/PIR-67165. If, as it appears likely from a production viewpoint, Way 6 were also engaged in "E-II" Class SSGN construction (since Ways 4 through 6 are all in the south bay and Way 3 is in the north bay) this would leave Way 3 as a logical candidate for the construction of the new class submarine.
3. Unidentified Auxiliary (LOA approximately 250 feet)
This vessel has three holds forward, a very short superstructure, and one possible hold aft. The small rectangular white object on the fore-castle, the hull configuration, and the length-overall confirm this to be the same ship observed in the deep-water side of the main launch basin on [REDACTED] See Annotation 22, [REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

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TOP SECRET

25X1

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TOP SECRET

25X1

25X1

IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 5

1. Small Tugboat
2. Unidentified Yard Craft
3. Floating Workshop
See Annotation 28

25X1

25X1

5. Portal Jib Crane

6. Portal Jib Crane

7. Rectangular Submarine Support Barge (LOA approximately

25X1

8. Three Floating Vertical Screens

25X1

10. Large Portal Jib Crane

11. Rectangular Submarine Support Barge

12. Rectangular Submarine Support Barge (LOA approximately 190 feet)

25X1

25X1

TOP SECRET

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25X1

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25X1

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TOP SECRET

25X1
25X1

IMAGERY ANALYSIS SERVICE

25X1

14.

15.

16. Possible YO
A possible centerline catwalk is visible.

17. Small Barge (LOA approximately [REDACTED])
This same barge was located (but not reported) across the open end
of the dock on [REDACTED]

25X1

25X1

25X1

20. Unique Auxiliary (visible length approximately 220 feet)
This is the same auxiliary located inboard of an "E-II" Class SSGN
in Berthing Space 1 on [REDACTED] See Annotation 6, Figure 4,
[REDACTED] and Annotation [REDACTED]

25X1
25X1

21. Portal Jib Crane

22. "N" Class SSN in Floating Dock (LOA of SSN approximately 360 feet)
The distance from the bow to the leading edge of the sail of the sub-
marine is approximately [REDACTED] The sail length at the deckline is
at least [REDACTED] Bow planes having a width of approximately [REDACTED]
and an overall athwartships span of approximately [REDACTED] are located
approximately [REDACTED] from the bow extremity to the leading edge of
the planes). An unidentified object approximately [REDACTED] in length
is located immediately abaft the sail. A series of at least nine
parallel black lines is visible around the hull of the after half of
the submarine. The spacing between these lines varies from approxi-
mately [REDACTED] with most spacings in the range of [REDACTED]

25X1
25X1

25X1

25X1
25X1

25X1

25X1

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TOP SECRET

25X1

25X1

Approved For Release 2004/01/16 : CIA-RDP79T00919A000200050001-5

25X1

25X1

IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS ON FIGURE 6

1. "J" Class SSG (visible waterline length approximately [REDACTED]) 25X1
2. Possible AKL (LOA approximately [REDACTED]) 25X1
This ship has two holds forward and a superstructure aft.
3. Unidentified Yard Craft
4. Unidentified Tugboat (visible length approximately [REDACTED]) 25X1
5. Light Portal Crane on Quay
6. "E-II" Class SSGN (visible waterline length approximately 375 feet)
7. Possible YP
8. OKHTENSKIY Class ATR (LOA approximately [REDACTED]) 25X1
9. Two Possible Missile Transporters (length of each approximately [REDACTED]) 25X1
These possible transporters are positioned on the quay just aft of the forward SSM mount on the KYNDA Class DLGM. The possible transporter closest the KYNDA appears to be higher than the other possible missile transporter indicating that it is occupied and that the other possible transporter is unoccupied.
10. Unidentified Object on Quay
This object spans the quayside craneway and is in line with the forward SSM mount on the KYNDA Class DLGM at this berth. It is also aligned with the possible missile transporter nearest the KYNDA. Because of its position and alignment vis-a-vis the SSM mount and the possible missile transporter, this object could possibly be a cruise missile lifting device.
11. KYNDA Class DLGM (LOA approximately 465 feet)
The forward SSM mount is aligned with the ship's centerline axis in this view. See Annotation 10, Figure 14 of this report.
12. Unidentified Yard Craft
13. "TOPLIVO-2" Class YO (LOA approximately [REDACTED]) 25X1
See Annotation 17, Figure 6, [REDACTED] 25X1

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25X1

25X1

Approved For Release 2004/01/16 : CIA-RDP79T00919A000200050001-5

25X1

25X1

TOP SECRET

SEVERODVINSK NAVAL BASE & SHIPYARD -02
6--35N 039--50E
SEVERODVINSK, USSR
(QUAY AREA, WEST BASIN.)

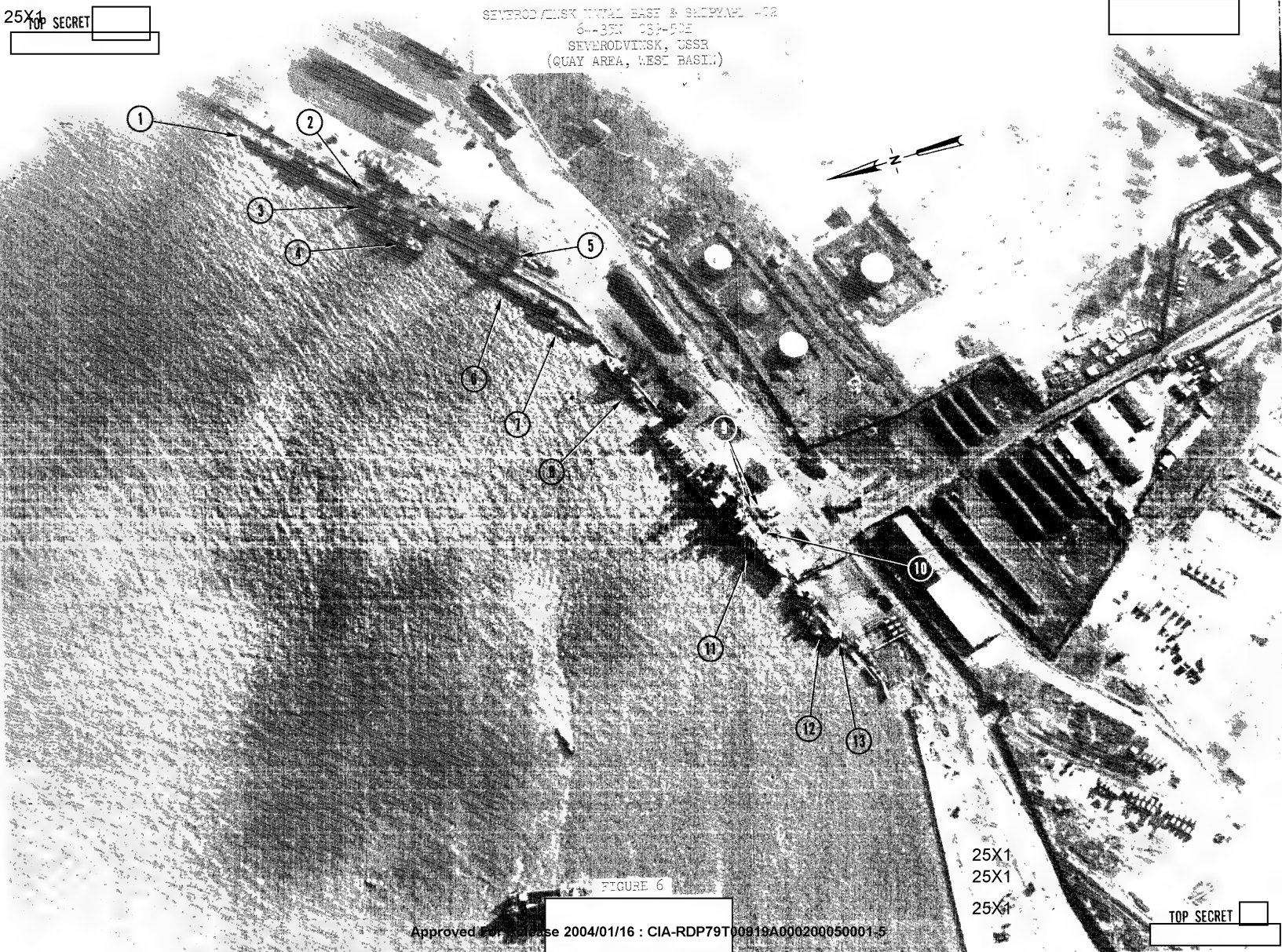


FIGURE 6

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TOP SECRET

25X1

Approved For Release 2004/01/16 : CIA-RDP79T00919A000200050001-5

25X1

25X1

MAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS ON FIGURE 7

1. Probable Bulk Carrier
 See Annotation 14, Figure 2,

25X1

2. "SHALANDA-1" Class YO
 See Annotation 19, Figure 6,

3. "J" Class SSG (visible waterline length approximately

25X1

[REDACTED]

25X1

5. OKHTENSKIY Class ATR (LOA approximately

25X1

6. Unidentified Vessel (LOA approximately
 Imagery which may equate to piping external forward of the superstructure along the centerline of this vessel.

25X1

7. Probable Barge (LOA approximately
 This superstructure aft vessel has two forward hatches with a cylindrical object positioned between them.

25X1

8. Bucket Dredge (LOA approximately
 See Annotation 12, Figure 2,

25X1

25X1

25X1

10. Unidentified Vessel (LOA approximately
 This vessel has a raised forecandle, a possible crane between the two forward hatches, and a superstructure aft. See Annotation 7, Figure 7,

25X1

25X1

11. Unidentified Vessel (LOA approximately
 This craft has a long narrow appearance similar to a combatant with possible gunmounts fore and aft of the superstructure.

25X1

12. Probable YTM/YTR (LOA approximately
 Lack of hatches, overall hull shape, and position of the superstructure forward of amidships lead to this identification.

25X1

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25X1

25X1
25X1

TOP SECRET [REDACTED]

25X1
25X1

13. "P-6(?)" Class PT (LOA approximately [REDACTED])
See Annotation 1, Figure 2, [REDACTED]
14. Utility Landing Craft (LOA approximately 90 feet)
15. Three Probable "PO-2" Class YAs (LOA of each approximately [REDACTED])
16. Possible "POLUCHAT-3" Class YPT (LOA approximately [REDACTED])
17. Unidentified Probable Bulk Carrier (LOA approximately [REDACTED])
No silt from the probable bucket dredge alongside is visible in the hold of this cargo. See Annotation 13, Figure 2, [REDACTED]
18. Probable Bucket Dredge (LOA approximately 270 feet)
See Annotation 3, Figure 9, [REDACTED]
19. Unidentified Submarine (could not be measured)
The shadow of the BRUT Class ASR moored inboard of this submarine covers all but a portion of the top of the sail (approximately [REDACTED] and the stern. The distance from the visible portion of the sail to the stern is approximately 145 feet. No fin is visible on the gently sloping stern.
20. Two Class ASR (LOA approximately 60 feet)
A dish-like structure approximately [REDACTED] in diameter is located on the deck at the leading edge of the stern and just forward of the superstructure. The shape and size of this object indicates it is of a greater [REDACTED]
21. Unidentified Probable PT (LOA approximately [REDACTED])
Visible visible details of this vessel include a slightly raised deck area by the bow and stern, a mast by the edge of each raised deck area, a stepped superstructure with a curved leading edge, three lifeboats, one to port, one to starboard, and one immediately aft of the stack, and one visible on the forward. Four circular platforms are positioned along the vessel's centerline, two forward and two aft of the superstructure.
22. Unidentified Small Craft (LOA approximately [REDACTED])
23. Probable Barge (LOA approximately [REDACTED])
This craft resembles the barge described in annotation 7 above.
24. Large Missile Target Barge (LOA approximately [REDACTED])
Two, and possibly three, heat generators and one possible reflectors are visible. See Annotation 1, Figure 8, [REDACTED]

ILLEGIB
25X1

25X1
25X1



25X1

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TOP SECRET

25X1

25X1

IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 8

1. Unidentified Barge (LOA approximately [REDACTED])
See Annotation 9, Figure 10, [REDACTED]
2. Portal Jib Crane
The jib of this crane is positioned over the submarine support barge at Annotation 3 below. There are now two cranes on this quay; on [REDACTED] this quay contained only one crane.
3. Rectangular Submarine Support Barge (LOA approximate [REDACTED])
4. "H" Class SSBN (visible waterline length approximately [REDACTED])
Approximately [REDACTED] of the forward bridge housing is all that remains in place of the sail of this submarine. The remaining after portion of the sail has been removed, possibly down to the pressure hull, exposing three circular holes in the approximate position of the three missile tubes. Approximately [REDACTED] of deck plating has been removed from an area immediately adjacent to the remaining section of the sail to an area approximately [REDACTED] from the stern. The "outer framework" previously described as encasing this submarine is now judged to be part of the submarine's outer hull. This present evaluation is derived in part from similar imagery observed on the hull of the adjacent "N" Class SSN (Annotation 2, Figure 15 of this report). The distance from the bow to the apparent leading edge of the sail is approximately [REDACTED] which is consistent with the measurement obtained for the "H-I" Class SSBN. See CIA/PIR-77108 for a more detailed analysis of "H" Class SSBN activity at the Yagry Island Nuclear Submarine Special Support Facility. Also see Annotation 19, [REDACTED]

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

6. Portal Jib Crane
The boom of this crane is positioned over the stripped-down area on the "H" Class SSBN at Annotation 4, above.

7. Unidentified Barge (LOA approximately [REDACTED])

25X1

TOP SECRET

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25X1

TOP SECRET

8. Rectangular Submarine Support Barge (LOA approximately [redacted])

10. Possible TUGUR Class YTM (could not be measured)

11. "H-II" Class SSBN in Nikol'skoye Estuary (could not be measured)
Identification as to class is based on proportional measurements
which indicate a sail length of approximately [redacted] Other visible
recognition features include a box sonar, pointed bow, and stern fin.

12. Unidentified YTM/YTR (could not be measured)

13. Unidentified Small Vessel (could not be measured)

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SEVERODVINSK NAVAL BASE & SHIPYARD 402
6L-35X 039-50E
SEVERODVINSK, USSR
(NUCLEAR SUBMARINE SPECIAL SUPPORT FACILITY)

FIGURE 8

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TOP SECRET

100

25X1

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TOP SECRET

25X1

25X1

IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 404
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS OF FIGURE 9

25X1

1. Possible ADG (LOA approximately 140 feet)
 The scaling factor used to determine this vessel's LOA has been corrected since [REDACTED] See Annotation 1, Figure 4, [REDACTED]
2. "E-II" Class SSGN (visible waterline length approximately [REDACTED])
 This is the first submarine to be sighted at this quay. A possible LCM is positioned between the submarine and the quay. The numbers 2, 3, and 4 missile launchers on the submarine are elevated. The light portal crane on the quay's edge is located in line with the leading edge of the number 1 missile launcher.

25X1

25X1

3.

25X1

4. Rectangular Work Barge (visible length approximately 130 feet)
 This appears to be the identical barge observed (but not reported) on the edge of the Main Quay to the Yagry Island Repair Facility by the stripped-down "G" Class SSE in [REDACTED] No barge is presently visible on this quay. See Annotation 3, Figure 8, [REDACTED] and Annotation 1, Figure 10 of this report.

25X1
25X1

5. SEKSTAN Class ADG (LOA approximately 130 feet)
 See Annotation 13, Figure 6, [REDACTED]

25X1

6. Large YAGT (LOA approximately 350 feet)
 A cluster of at least four radar reflectors is positioned near amidships. No heat generators are visible.

7.

25X1

25X1

TOP SECRET

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25X1
25X1

TOP SECRET

8 & 9. Two Probable Catamaran-type YACHTs (LOA of each approximately 230 feet)
See Annotations 1 and 2, Figure 7.

25X1

10. Probable Floating Pier Section (LOA approximately 195 feet)
See Annotation 6, Figure 7.

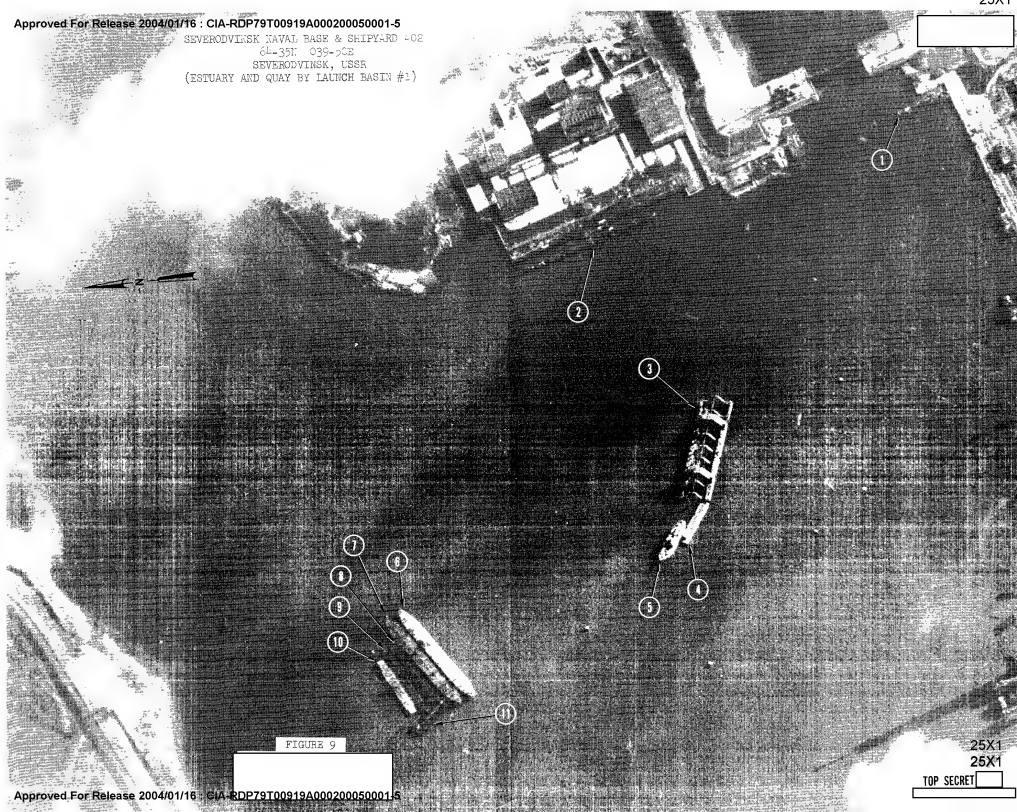
25X1

11. Short Catamaran Target Barge
See Annotation 5, Figure 7.

25X1

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SEVERODVINSK NAVAL BASE & SHIPYARD -02
64-35T 039-50E
SEVERODVINSK, USSR
(ESTUARY AND QUAY BY LAUNCH BASIN #1)



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25X1

25X1
25X1
TOP SECRET

25X1

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IMAGERY ANALYSIS SERVICE

25X1

25X1

SHIPYARD : NAVAL BASE AND SHIPYARD 402
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 10

1.

25X1

2. BOLVA Class APL

3.

25X1

4. Unarmed SKORYY Class DD

25X1

25X1

25X1

The forward and aft main batteries have been removed. A rectangular structure, open across the top, is located abaft the raised after battery platform. Two thin white lines cross from the SKORYY to the foredeck of the "N" Class SSN inboard. This is the first sighting of a SKORYY Class DD on [redacted] coverage of Severodvinsk. The dismantled armament and the structure on the afterdeck appear identical to that observed on a modified SKORYY Class DD observed on [redacted] at the Pala Bay Naval Repair Base, USSR (69-12N 033-26E). A ZEYA Class YRSN is observed with the "N" Class SSN and the SKORYY at Severodvinsk as was also the case at Pala Bay. See Annotation 8 below. Pala Bay was not covered on cloud-free photography between [redacted] On the last cloud-free coverage of Pala Bay in [redacted] no SKORYY Class DD was present indicating that the SKORYY now seen at Severodvinsk could be the same unit previously sighted at Pala Bay.

25X1

25X1

5. "N" Class SSN (visible waterline length approximately [redacted])
 An unidentified white object (possibly canvas) is located across the mid-foredeck. Shadows from the bridge of the adjacent SKORYY DD obscure the deck area immediately abaft the sail. This is the first observation of submarine activity along this quay which is still under construction between the submarine and the wet basin. This could equate to the "N" Class SSN previously observed (but no longer present) on the north ledge of the wet basin between [redacted]

25X1

25X1

See Annotation 13, Figure 8, [redacted] and Annotation 9, [redacted]

25X1
25X1

- 21

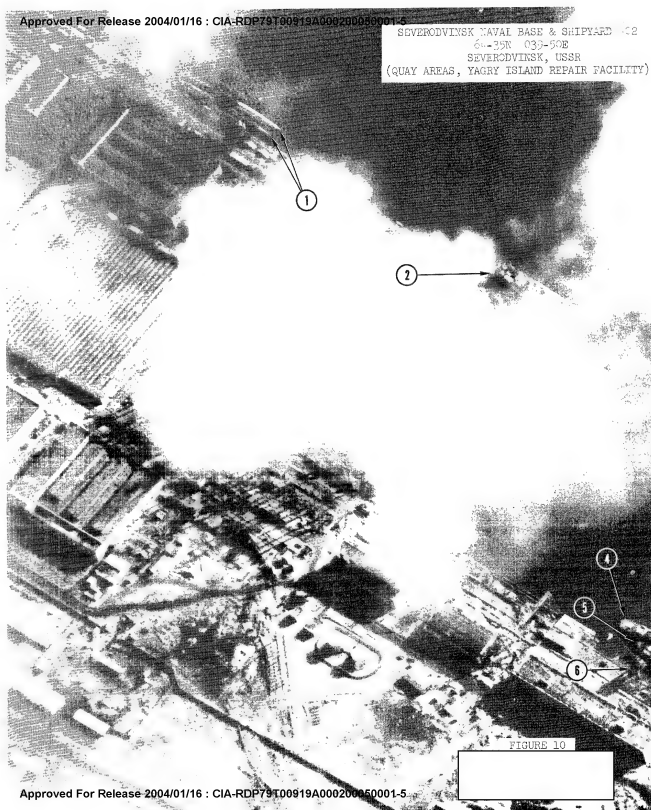
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25X1

25X1
25X1

TOP SECRET [REDACTED]

6. Portal Lift Crane
7. Rectangular Submarine Support Barge
8. ZEYA Class YASN
9. Unidentified Auxiliary



25X1

[REDACTED]

25X1

TOP SECRET [REDACTED]

25X1

25X1 TOP SECRET

25X1

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SEVERODVINSK NAVAL BASE & SHIPYARD 402
64-35N 039-50E
SEVERODVINSK, USSR

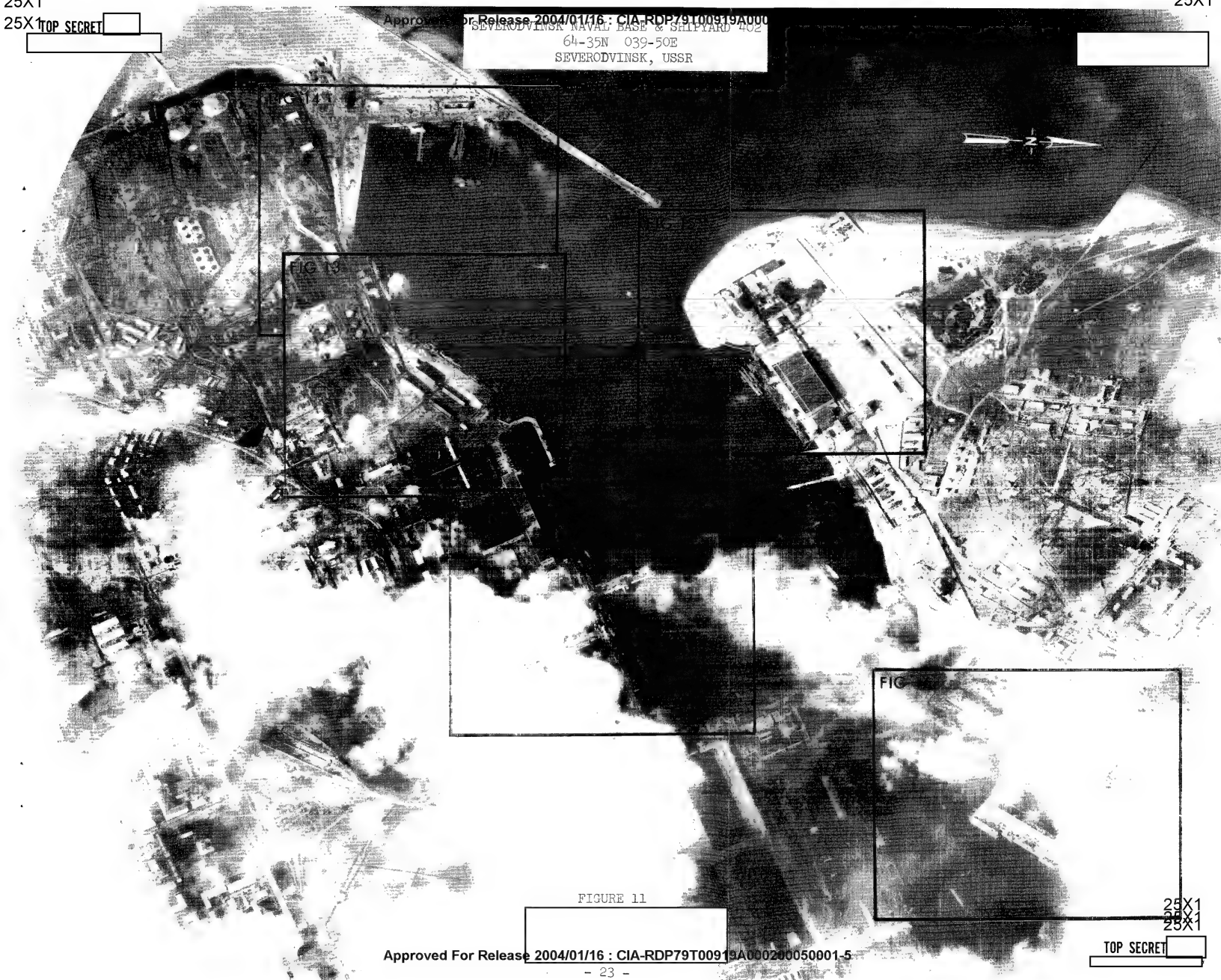


FIGURE 11

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TOP SECRET

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25X1

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TOP SECRET

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25X1

IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 12*

1. New Class Submarine
The distance between the two barges positioned on either side of the new class submarine is roughly 35-plus feet; however, shadows and resultant lack of contrast preclude an assessment of the submarine's waterline beam from this photography.
2. Berthing Space Number Three, Main Fitting-out Quay
The "E-II" Class SSGN sighted one day earlier in this space has left this position and cannot be accounted for in the cloud-free areas of the shipyard. See Annotation 9, Figure 5, of this report.
3. Unidentified Small Craft
4. Unidentified Barge Alongside Quay
No submarine activity is visible in Berthing Space 1.

*NOTE: Annotations to Figures 12 through 16 are restricted to observable changes in activity since [REDACTED]

25X1

25X1

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TOP SECRET

25X1

25X1 TOP SECRET

25X1

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SEVERODVINSK NAVAL BASE & SHIPYARD L02
64-35N 039-50E
SEVERODVINSK, USSR
(FITTING-OUT QUAY, MAIN YARD)



FIGURE 12

25X1
25X1

TOP SECRET

25X1

TOP SECRET
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25X1

IMAGERY ANALYSIS SERVICE

25X1

SHIPYARD : NAVAL BASE AND SHIPYARD 402
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS ON FIGURE 13

1. Berthing Space Number Three, West Basin
 The "E-II" Class SSGN sighted on [REDACTED] at this position is no longer at the West Basin Quay and has probably left the shipyard. See Annotation 6, Figure 6 of this report.
2. Three Unidentified Yard Craft
3. Five Unidentified Vessels
4. Eight Possible Polish "PR-40" Class MSB on Quay
 See Annotation 1, Figure 6, [REDACTED]
5. Possible Submarine Hull Section (diameter approximately [REDACTED])
 This upright cylinder does not appear to be the same object as the possible submarine hull section observed on its longitudinal axis on the side launching way in [REDACTED]. See Annotation 2, Figure 5, CIA/PIR-77008. An unreported upright circular object was observed in this identical position on [REDACTED]. Weather conditions precluded observation of this area on [REDACTED].

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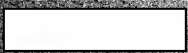
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SEVERODVINSK NAVAL BASE & SHIPYARD 4C2
64-35N 039-50E
SEVERODVINSK, USSR
(WEST BASIN QUAY AND LAUNCH BASIN #2)



25X1



FIGURE 13

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IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 602
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 14

1. Unidentified Craft
2. Berthing Space Number Twelve, West Basin
 The possible "POLUCHAT-3" Class YPT previously located in this position has left the West Basin area.
3. Unidentified Vessel Outboard of SEKS'IAN Class ADG Alongside Quay
 See Annotation 11, Figure 7 and Annotation 5, Figure 9 of this report.
4. Berthing Space Number Thirteen, West Basin
 One of the three probable "PO-2" Class YAG at this pier has left since [REDACTED]
5. Probable "W/R" Class SS (visible waterline length approximately 245 feet)
 Identification is based upon length and lack of a large sail. This may be the submarine obscured by the PRUT Class ASR on [REDACTED] 25X1
 See Annotation 19, Figure 7 of this report. The PRUT Class ASR and the "unidentified [REDACTED] AG" sighted one day earlier at this pier are no longer present at the West Basin and have probably left the shipyard. It is quite likely that the PRUT Class ASR left with one of the two "E-II" Class SSGNs which have also probably left the yard during this one day interval. Based upon a functional analysis of the two quays where each of the "E-IIs" in question was observed on [REDACTED] it is possible that the PRUT may be accompanying (on trials) the "E-II" previously sighted along the Main Outfitting Quay. It is also possible that the [REDACTED] AG" may have left in 25X1
 company with the "E-II" Class SSGN previously observed alongside the West Basin (missile loading) Quay. See Annotations 20 and 21, Figure 7; Annotation 9, Figure 5; and Annotation 6, Figure 6 of this report.
6. Berthing Space Number Thirteen, West Basin
 The [REDACTED] unidentified vessel previously sighted in this position may be the outboard vessel now located at Annotation 3 above.
7. Berthing Space Number Five, West Basin
 The "TOPLIVO-2" Class YO berthed alongside this quay on [REDACTED] 25X1
 has moved. See Annotation 13, Figure 6 of this report.

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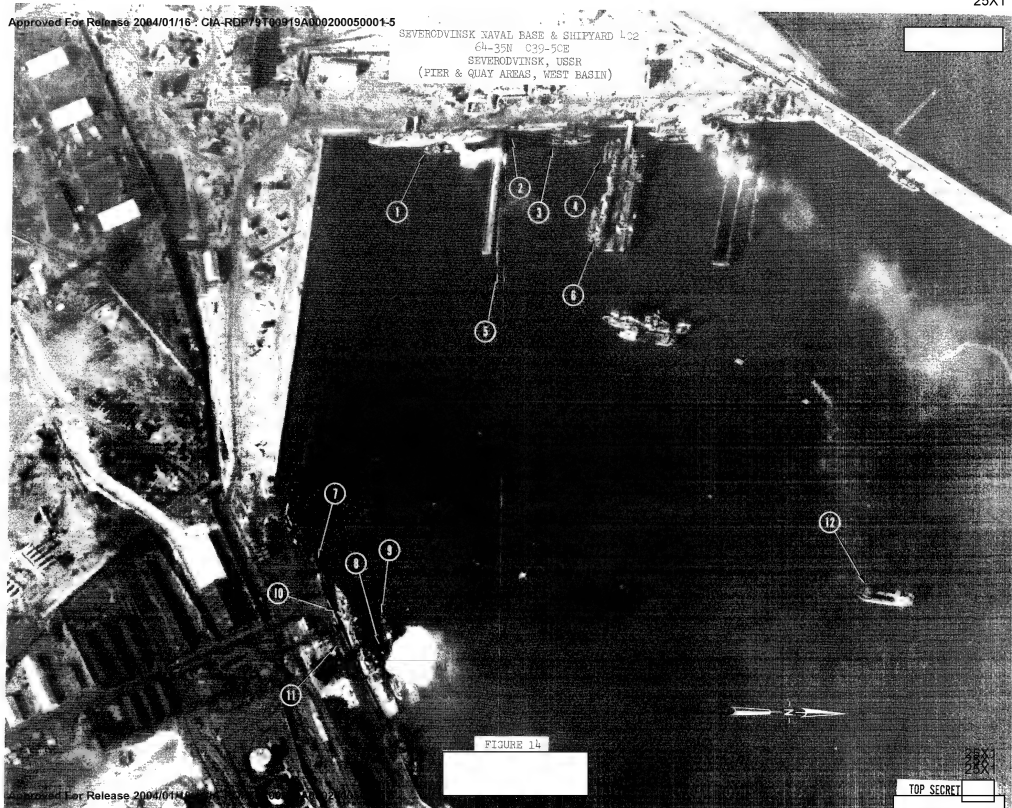
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8. Unidentified Auxiliary Between KYNDA Class DLGM and RIGA Class DE
This craft has a visible topside superstructure aft configuration very similar to that of the "GOBLIN-2" Class XO berthed just forward of the KYNDA on [redacted] (see Annotation 7 above).
9. RIGA Class DE
No ships were outboard of the KYNDA one day earlier.
10. Missile Loading Aboard KYNDA Class DLGM
A missile is suspended in line with, and just forward of, the inboard starboard launch tube of the KYNDA's forward SSM mount which is trained approximately 40 degrees to port. The visible length of the missile is approximately [redacted] although the after end of the missile may be obscured by the open tube cover. The missile's diameter is approximately [redacted]. The fore and aft launcher tube caps are apparently open on all but the inboard port tube. See Annotation 11, Figure 6 of this report.
11. Unoccupied Possible Missile Transporter on Quay
See Annotation 9, Figure 6 of this report.
12. Probable Bulk Carrier
See Annotation 1, Figure 7 of this report.

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SEVERODVINSK NAVAL BASE & SHIPYARD L02
CA-33M C39-508
SEVERODVINSK, USSR
(PIER & QUAY AREAS, WEST BASIN)

FIGURE 14

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IMAGERY ANALYSIS SERVICE

SHIPYARD : NAVAL BASE AND SHIPYARD 402
 LOCATION : SEVERODVINSK, USSR
 GEO COORDS: 64-35N 039-50E

25X1

KEY TO ANNOTATIONS ON FIGURE 15

1. Position Previously Occupied by "H-II" Class SSBN
 The "H-II" Class SSBN previously observed in the estuary is not visible one day later in the cloud-free portion of the estuary. It is possible that this is the same submarine which entered the wet basin during the one day interval. See Annotation 11, Figure 8 and Annotation 1, Figure 16 of this report.
2. "N" Class SSN (visible waterline length approximately [REDACTED]
 This submarine appears to be riding very high in the water, an observation which is reinforced by a measurable waterline length of [REDACTED] feet longer than usually observed on "N" Class submarines at this shipyard. The amidships hull configuration of this submarine consists of four parallel lines -- the outer two lines, or waterline beam, approximately [REDACTED] apart, and two higher inner deck lines approximately [REDACTED] wide. The resulting hull configuration appears to be one of a higher narrower deck "necking-down" to meet the broader amidships hull extremities toward the waterline. It is not believed that this imagery represents staging or a cradle/fender device along the hull of the submarine for the following reasons: (1) the outer edges of this imagery fair smoothly into the rounded leading edge of the bow; and (2) the waterline dimensions of [REDACTED] for the width extremity of this imagery is compatible with the waterline beam of the "N" Class SSN. This "necking-down" appearance begins at the leading edge of the stern fin and fairs into the after edge of the bow sonar, a total length of approximately [REDACTED]. See Annotation 5, Figure 8 and Figure 15A of this report.
3. Position Previously Occupied by Portal Jib Crane
 The portal jib crane observed at this position on [REDACTED] has moved further west along this quay. See Annotation 2, Figure 8 of this report.

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4. Berthing Space Number Two, Nuclear Submarine Special Support Facility
The [] rectangular submarine support barge observed one day earlier along this quay has left and is possibly the newly-arrived support barge in the Hagry Island wet basin. See Annotation 3, Figure 8 and Annotation 2, Figure 16 of this report.

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IMAGERY ANALYSIS SERVICE

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SHIPYARD : NAVAL BASE AND SHIPYARD 402
LOCATION : SEVERODVINSK, USSR
GEO COORDS: 64-35N 039-50E

KEY TO ANNOTATIONS ON FIGURE 16

1. Large Unidentified Submarine on North Ledge of Wet Basin
This submarine has a visible length of over 300 feet and a large sail at least 80 feet in length. No submarine was located on the north ledge of the basin on [REDACTED] (on the companion frame to that used for Figure 10 of this report). If this submarine were to equate to one of the submarines known to have moved during the one day time interval (between [REDACTED] it would have to equate to the "H-II" Class SSBN observed in the estuary off the Nuclear Submarine Special Support Facility. The probable transfer of a submarine support barge from the quay of the Nuclear Submarine Special Support Facility to the wet basin also tends to support the association between the "H-II" SSBN previously seen in the estuary and the unidentified submarine now observed on the north ledge of the wet basin. See Annotations 3 and 11, Figure 8 and Annotation 2, Figure 16 of this report.
2. Rectangular Submarine Support Barge
The only barge of this type known to have moved since [REDACTED] was previously located along the quay to the Yagry Island Nuclear Submarine Special Support Facility. See Annotation 3, Figure 8 of this report.
3. Unidentified Object Along East Wall of Wet Basin
4. Possible "G" Class SSB on South Ledge of Wet Basin (visible length of submarine approximately 310 feet)
No sail housing is present on this submarine; however, a peaked-roof section similar to that previously seen over "G" Class SSB in this basin is located over the amidships area of the submarine. In addition, the hull outline of this submarine resembles that of the "G" Class SSB. Only one submarine now occupies the south ledge of the wet basin whereas two submarines occupied this ledge on [REDACTED]. See Annotations 12 and 13, [REDACTED] Three (possible) "G" Class SSB have been observed at the Yagry Island Repair Facility on [REDACTED] coverages since [REDACTED] See Annotations 15 and 16, [REDACTED] and Annotation 7 below.

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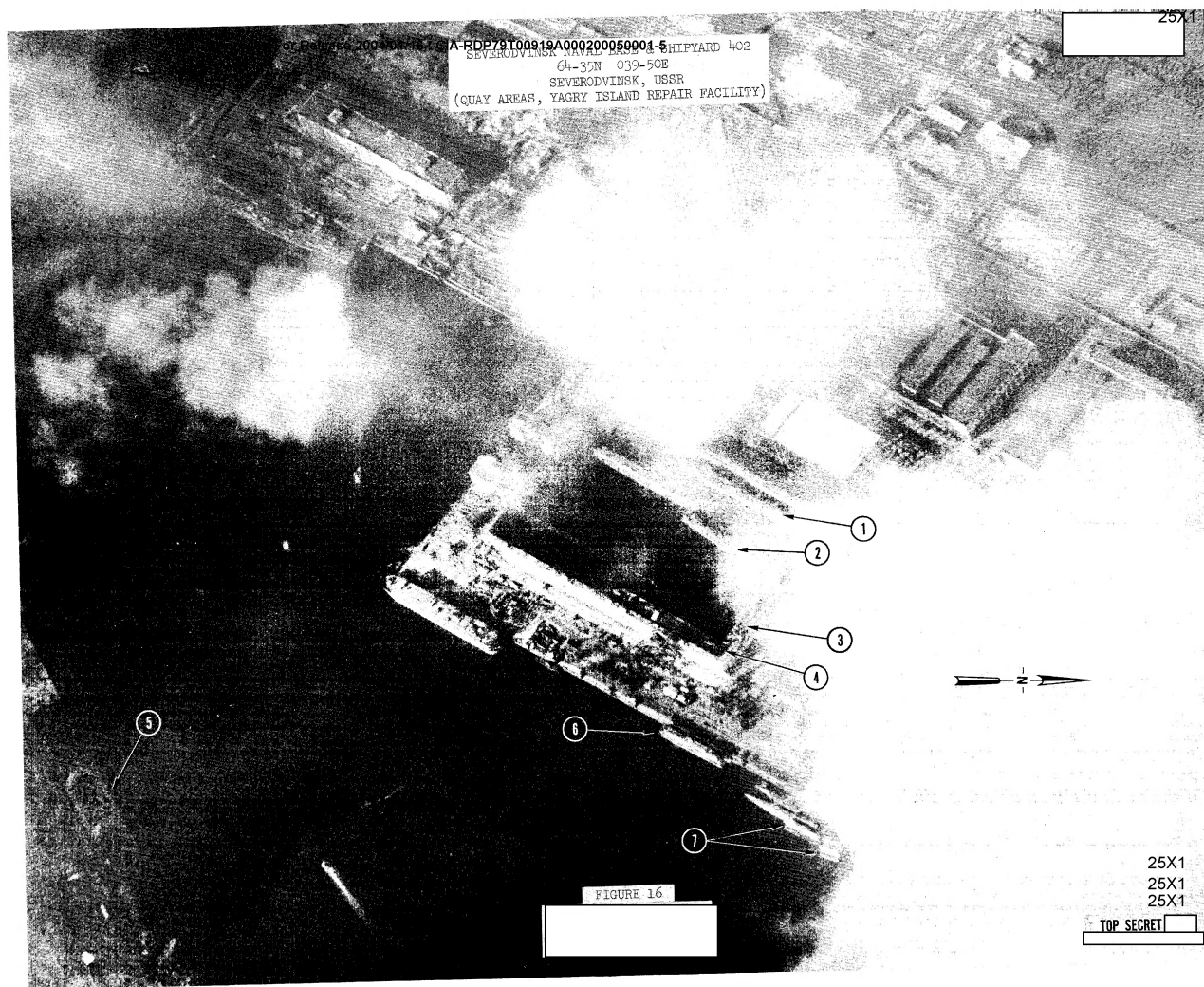
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middle of the estuary since the
Figure 9 of this report.

age Alongside Easy Quay
quay one day earlier.

Outboard of Two Possible "G" Class SSBs
ent outboard of the two submarines
are partially obscured by clouds.
25X1 cal screens on [] photo-
Class SSBs. It is also the first
sighted along the Yagry Island
Annotation 3, Figure 2 of



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IMAGERY ANALYSIS SERVICE

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REFERENCES

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Documents

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1. CIA. PIR-67315, Naval Base and Shipyard 402, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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25X1

2. CIA. PIR-67165, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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3. CIA. PIR-77008, Submarine Hull Sections, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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25X1

4. CIA. PIR-77108, "H" Class SSBN Activity, Yagry Island Nuclear Support Facility, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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5. CIA. PIR-77110, Naval Base and Shipyard 402, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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6. CIA. DDI/IAR-83044 Naval Base and Shipyard 402, Severodvinsk, USSR,

[REDACTED] TOP SECRET [REDACTED]

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